

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P298752

Luminaire Tested: **24FPX-47-L830-LV1-SWPD1**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P298752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FPX-47-L830-LV1-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 3000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

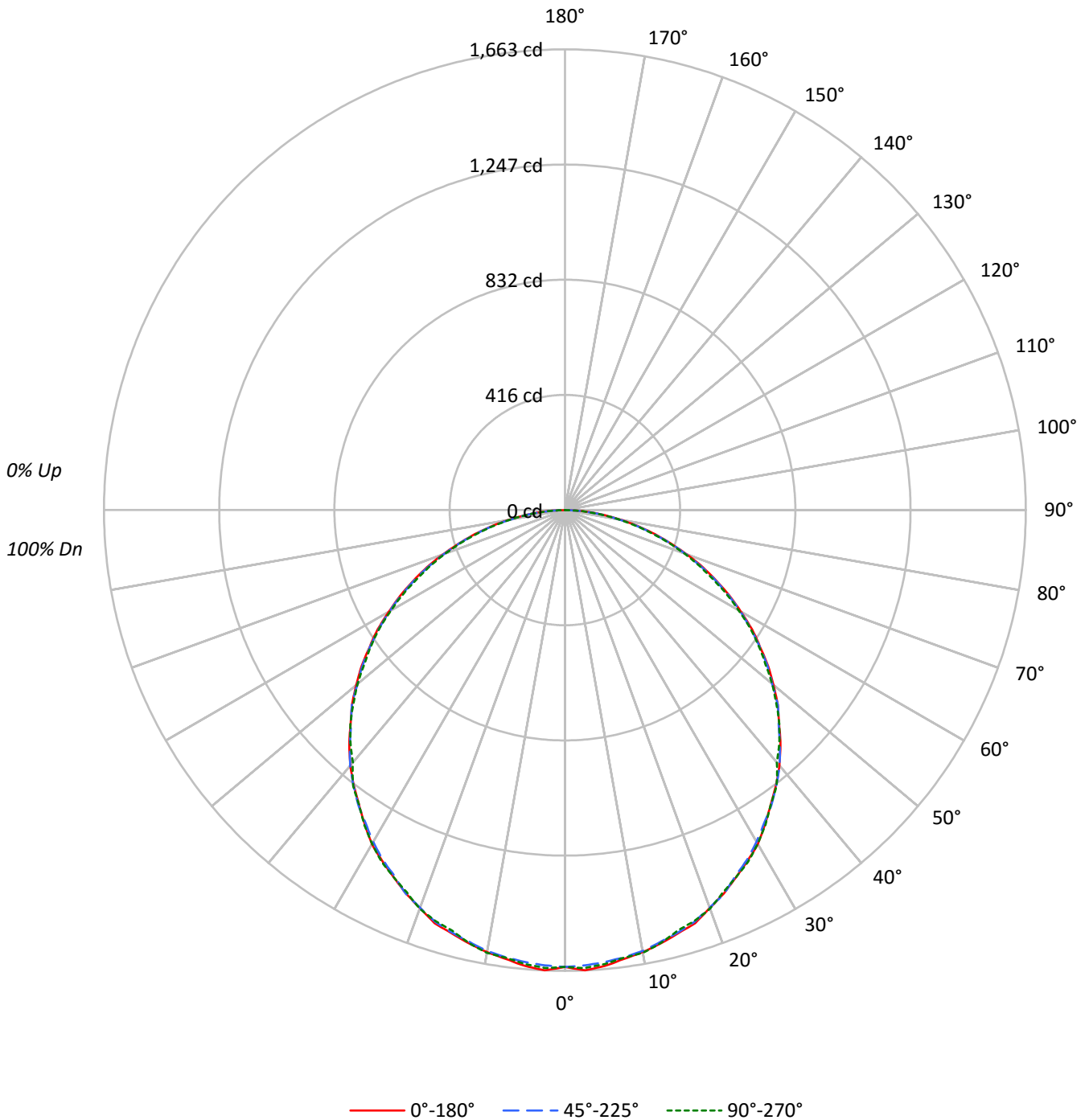
Lumens per Lamp: N/A
Luminaire Lumens: 4742.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2219	2219	2219
5°	2231	2212	2221
10°	2213	2207	2217
15°	2202	2198	2189
20°	2188	2186	2192
25°	2170	2162	2170
30°	2164	2149	2161
35°	2128	2135	2128
40°	2115	2117	2091
45°	2080	2075	2083
50°	2056	2045	2045
55°	2015	2012	2002
60°	1972	1965	1950
65°	1919	1910	1875
70°	1842	1826	1804
75°	1750	1722	1693
80°	1632	1578	1557
85°	1433	1369	1348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.3
10°-20°	445.1	9.4
20°-30°	674.1	14.2
30°-40°	812.2	17.1
40°-50°	844.5	17.8
50°-60°	766.4	16.2
60°-70°	591.7	12.5
70°-80°	350.5	7.4
80°-90°	101.8	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1274.9	26.9
0°-40°	2087.2	44.0
0°-60°	3698.2	78.0
0°-90°	4742.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1652	1643	1638	1634	1645	156
15°	1581	1574	1578	1576	1571	447
25°	1462	1463	1456	1458	1462	675
35°	1296	1297	1300	1298	1296	813
45°	1093	1096	1090	1093	1095	846
55°	859	862	858	856	854	770
65°	603	603	600	594	589	597
75°	337	334	331	328	326	355
85°	93	89	89	87	87	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.9	1648.9	1648.9	1648.9	1648.9
2.5°	1662.8	1642.0	1644.7	1639.2	1654.4
5°	1651.7	1643.4	1637.8	1633.7	1644.7
7.5°	1633.7	1626.7	1628.1	1626.7	1629.5
10°	1619.8	1619.8	1615.6	1611.5	1622.6
12.5°	1601.8	1601.8	1596.2	1592.1	1600.4
15°	1581.0	1574.1	1578.2	1575.5	1571.3
17.5°	1563.0	1554.7	1557.5	1545.0	1554.7
20°	1528.4	1525.6	1527.0	1520.0	1531.1
22.5°	1497.9	1502.0	1499.3	1496.5	1492.3
25°	1461.8	1463.2	1456.3	1457.7	1461.8
27.5°	1427.2	1431.4	1423.0	1423.0	1431.4
30°	1392.6	1387.0	1382.9	1391.2	1391.2
32.5°	1344.1	1338.5	1338.5	1342.7	1346.8
35°	1295.6	1297.0	1299.7	1298.3	1295.6
37.5°	1251.2	1248.5	1252.6	1252.6	1255.4
40°	1204.1	1206.9	1205.5	1200.0	1190.3
42.5°	1151.5	1154.2	1147.3	1154.2	1144.5
45°	1093.3	1096.0	1090.5	1093.3	1094.6
47.5°	1042.0	1039.2	1042.0	1037.8	1035.1
50°	982.4	981.0	976.9	976.9	976.9
52.5°	924.2	920.1	920.1	920.1	911.7
55°	859.1	861.9	857.7	856.3	853.5
57.5°	800.9	795.4	794.0	794.0	792.6
60°	733.0	731.6	730.2	727.5	724.7
62.5°	669.3	663.7	665.1	662.3	658.2
65°	602.8	602.8	600.0	594.4	588.9
67.5°	539.0	536.2	532.1	529.3	523.8
70°	468.3	467.0	464.2	461.4	458.6
72.5°	400.4	399.1	397.7	394.9	392.1
75°	336.7	333.9	331.2	328.4	325.6
77.5°	270.2	268.8	267.4	263.3	263.3
80°	210.6	206.5	203.7	202.3	200.9
82.5°	148.3	148.3	145.5	144.1	144.1
85°	92.8	88.7	88.7	87.3	87.3
87.5°	40.2	38.8	36.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)